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1170	1051	1432	903	1174	205	396	1437	178	1169
1440	1171	1932	1933	1434	395	1436	2157	628	1699
1700	1441		2153	2154	1435	1726		1168	2159
1930	1931			2724	1935	1936		1438	
					2355	2156		1698	
					2725	2356			
						2726			

**Diesel Engines**

1490	221	682	523	1484	1265	1266	427	298	669
1990	1491		903	2394	1485	1486	757	1488	1489
	2021		1173				1487	1988	2589
	2191								

**Differential Equations**

2563	2494	1826	2738
------	------	------	------

**Digital Filters**

2541

**Digital Simulation**

2540	1461	1282	223	1364	5	1826	1787	1288
		1452	1003	1814	485			
					645			
					915			
					995			

**Digital Techniques**

2340	1703	2544	1685	1456	568	2139
------	------	------	------	------	-----	------

**Direct Computational Method**

1201

**Discontinuity-Containing Media**

2050	1103	1134	865	866	2338
	2303		2305		

**Discs**

use Disks

**Disks**

2251	2382	2579
------	------	------

**Disk Springs**

2633

**Abstract**

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# Dynamic Tests

230	21	292	43	44	385	76	27	28	229
520	111	622	243	244	715	586	77	238	389
840	391	672	783	1914	1165		387	318	709
2640	511	732	833		1435		897	838	759
	841	812	843		2295		1627	898	1559
	1671		2063				1927	1408	1739
			2553				2587	1918	

# Dynamic Vibration Absorption (Equipment)

1823	1316	1317
	1496	

# Dynamic Weighing Method

2344	2345
------	------

# Dynamically Tuned Structures

1893	1894
------	------

# Dynamometers

1670	165	377	378	379
------	-----	-----	-----	-----

-E-

# Earth Handling Equipment

1568
------

# Earth Structures

734	1095
-----	------

# Earthquake Damage

241	842	733	704	725	706	707	2198	699
	862		864	1095	1506	737		2199
	892				2596			

# Earthquake Prediction

914	1648
-----	------

# Earthquake Resistant Design

use Earthquake Resistant Structures

# Earthquake Resistant Structures

150	1101	172	703	264	25	26	227	708	229
700	1131	832	973	1054	705	926	407		899
710		1093			735	976	777		1019
							1097		

# Earthquake Response

260	31	242	843	734	545	256	257	228	29
730	361	252		824	745	736	1097	248	239
820	731	732		1094	2415	776	1167	258	259
	861	2092		1844		1096	777	358	319
	1191	2372				2416	1647	438	359
	1771	2602					2107	878	969
							2197	2518	1179
							2427		2109
							2747		

# Earthquakes

860	392	933	1094	357
	2732			

# Eigenvalue Problems

110	353	404	1735	116	1887	88	2709
550		2683	2564	1955	1186		818
830				2565			908
2120							1138

# Eigenvalues

use Eigenvalue Problems

# Elastic Foundations

2010	822	583	1894	826	1847	329
	1772	1843				2069
	1842					

# Elastic Media

910	1412	154	155	157	1949
		1664		1947	
		1944			

# Elastic-Plastic Properties

2130	184	1769
	2704	2129

# Elastic Properties

1460	2131	2692
	2311	
	2351	

# Elastic Waves

610	2681	142	1113	114	145	146	147	1388	159
1180		1882	1883	564	565	1636	347	1978	629
2140		1952	2093	1604	1635	1976	1387	2338	2099
2690			2303	1634		2516			2679
			2673	2094		2696			

# Elastically Restrained Edges

2665
------

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Elasticity Theory	2173							Electronic Test Equipment							
								2172							
Elastodynamic Response								Elevated Railroads							
	2264      106							277							
Elastohydrodynamic Properties								Elevators							
	2645    2256							223                  1997							
Elastomeric Bearings								Enclosures							
	2464    2055        2047							1882        1384							
Elastomeric Dampers								Energy Absorbers							
1341    2262    1653    2534	597    1408							use Energy Absorption							
2121	2718														
Elastomeric Seals								Energy Absorption							
	2645							780    2461    1022    783        465    1556    787    1018    1559							
								2460                  505    1566    1567    1308							
								1595                  1707    1558							
Elastomers								Energy Dissipation							
781	693    504    595    2246    597        779							1691    1692                                  459							
	2464    2435        617        1689														
	2467							Energy Methods							
								925                  1848							
Elasto Plastic Properties								Energy Storage Systems							
161	1737							2044							
2071															
Electric Generators								Engine Mounts							
use Electric Power Plants								1021    2042							
Electric Motors								Engine Noise							
	2545							1490    2021    1992    293    1264    1495                  1488    1489							
								1980    2171    2442    1493    1494    2155                  1989							
Electric Power Generation								1990                  2443                  2389							
	1516														
Electric Power Plants								Engine Valves							
220    1831        1383    2424    745    2166    267    1288								1661							
2540	1753        2465        1287							Engine Vibration							
								1491    1992                  1265    596                  478    429							
Electric Vehicles								2171                  1485    1266							
	2429														
Electrical Machines								Engines							
1102    2553    644								430    221    582    1493    1484    1485    1486    1487    428    1369							
								1490    681                  1987    1488    1489							
								1171                  1698							
Electrohydraulic Systems								1491							
643	1569							1661							
Electronic Instrumentation								Environmental Effects							
500								1661    2172							

Environmental Simulation						Explosion Effects												
1697						845 2308												
Equations of Motion						Explosions												
1220	1221	1662	1003	1404	1215	287	398	289	1665									
2560	1473			1464	1475	927	2738	1179										
1554			1187															
Equipment						Extended Field Method												
1511						404 325												
Equipment Mounts						External Damping												
782						2652												
Equipment Response						External Reverberation												
172	593	1145		716	2017	588	149	971										
1923					579	Extremum Principles												
Equivalent Linearization Method						2740												
1950						867	2618	2729										
					2648													
Error Analysis						-F-												
1680	374			375	166	568	649											
2314			1345	1346	1358	1889												
Euler Beams						Failure Analysis												
						580	222	573	1175	537	798	609						
						1700	522	2333	1345	2357	2158	919						
						2360	1442	2353	1585	2159								
						2155												
Euler-Lagrange Equation						Fan Blades												
653 654						use Fans												
Exhaust Systems						Fan Noise												
791	52	726			739													
1661																		
Experimental Data						Fans												
80	840	12	23	214	1175	356	87	368	389	2190	1332	2473	124	675	216	67	668	1479
430	841	202	463	454	1265	856	117	468	469	1754 1255 676 1257 1478 2389								
820	1251	292	723	834	1365	1266	257	838	479	906 1987 1728								
880	1551	352	783	1484	607 1028 529			2686 2687										
950	1611	752	833	1524	1097 1508 749													
1000	1002		1143	1257 1518 849			Fast Fourier Transform											
1560	1583			1507 1618 1099			600	2343	1214	2427								
1870	1773			2188 1519			1884											
1783						1549												
						1559			Fast Fourier Transformation									
						1749			use Fast Fourier Transform									
Experimental Results						Fasteners												
use Experimental Data						1581 528												

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# Fatigue Life

560 431 372 603 224 475 516 467 158 509  
 880 671 602 1763 344 605 536 537 608 609  
 1070 931 1572 2223 604 1355 606 607 738 1149  
 1150 1151 1902 2233 2014 1835 876 1657 938 1659  
 1330 1331 2192 2333 2034 2205 2336 2127 1148 1779  
 1660 1901 2332 2583 2204 2335 2277 1658 1899  
 1780 2211 1782 2633 2224 2337 1828 2059  
 1900 1781 2612 2334 2418 2209  
 1940 2221 2454 2528 2259  
 2060 2241 2754 2538  
 2210 2261  
 2260 2331  
 2641

# Fatigue (Materials)

1780 1661 34 2359

# Fatigue Strength

use Fatigue Life

# Fatigue Tests

2720 371 1152 1423 1424 995 1426 1427 1038 1589  
 1583 1574 1355 2386 2487 1428 1689  
 1584 1425 2546 2537 1928 2149  
 2554 1695 2128  
 1785 2148  
 2255

# Fiber Composites

2290 2711 1412 413 1134 135 1056 2547  
 2360 1204 505 1696  
 895 2336  
 2315 2536  
 2655

# Fiberglass

1700

# Fibers

2484 1427

# Filters

2541 2585

# Finite Difference Technique

1360 1631 1362 1617 1628  
 1632

# Finite Difference Theory

use Finite Difference Technique

# Finite Element Technique

110 421 322 213 114 85 116 107 58 209  
 240 521 552 313 514 765 196 317 158 909  
 260 551 1112 343 654 775 226 517 458 1069  
 910 641 1142 573 1064 825 596 797 498 1079  
 960 871 1332 653 1194 965 766 957 608 1329  
 1080 1041 1372 913 1454 1065 1026 1137 728 1359  
 1590 1711 1622 1193 1584 1195 1056 1607 1518 1649  
 1710 1771 1712 2083 2074 1205 1376 1887 1708 1769  
 2050 2471 1982 2293 2094 1375 1646 2217 2098 2069  
 2711 2082 2503 2264 1845 1926 2517 2288 2179  
 2731 2422 2683 2314 1975 2006 2567 2368  
 2364 2075 2186 2568  
 2604 2265 2316 2578  
 2665 2486  
 2716

# Finite Strip Method

1058

# Flexible Couplings

812 523 524

# Flexible Foundations

803 1337  
 1443

# Flexible Rotors

630 1 212 2383 1445 1176 1447 2558 949  
 1251 1446 1937 2728  
 1751

# Flexible Shafts

666

# Flexural Vibration

170 71 1592 1573 84 75 796 2477 1258 19  
 330 1051 2052 2283 104 315 1066 1658 1059  
 540 1591 2493 324 1856 2078 2649  
 1360 1981 2264 2066 2488  
 2081 2664 2676  
 2281  
 2491  
 2661

# Flight Simulation

1970

# Flight Tests

51 1203 2385

# Flight Vehicles

993 2225 1217  
 2183

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Gas Turbine Engines											
1070	1262			1916		598					
						788					
Gas Turbines											
	422	423									
	1032										
Gear Boxes											
1580	2481	2642		1264	1175		2058				
Gear Couplings											
				1834		526					
Gear Cutting											
				1344							
Gear Drives											
1040											
Gear Noise											
	2062		2174		1996		2258				
	2642										
Gear Teeth											
			1833								
Gear Vibration											
	2642										
Gears											
1040	311	522	1343	1344	1345	76	77	1038	1039		
1580	2061	1342	1833	1454	2255	1346	1347	1348	1579		
2060	2641	1832	2163	2164		1406	1577	1578	2059		
2260	2642					2256	2257	2258	2259		
						2337					
General Method of Moments											
1201											
Geometric Effects											
1811					795	956	2257	1088			
2511					1255	2036		2068			
					1345	2486		2698			
Geometric Imperfection Effects											
1580	1961					1346	1347	2508			
Girders											
						697					
Glass											
					135	2296					
					2336						
Grape Vines											
								2594			
Graphic Methods											
	1041	472	1153	894	615					2119	
	1701		1473								
Grass											
1540											
Green Function											
								1953			
Grids (Beam Grids)											
								2584			
Ground Effect Machines											
280										278	279
990										988	
Ground Motion											
860	361	152	393	364	1665					917	718
	2531	392	893	924						1647	2108
		892	943								719
		2372	1503								
Ground Shock											
										2308	
Ground Vehicles											
10	2041	1292	1473	614						66	757
40	2431	1522	1693							696	758
510	2611	2432								756	
2210										896	
										1676	
Ground Vibration											
751				374	245	726					
2201						1676					
Guard Rails											
										87	
Guideways											
2431								2435	986		
								1846			
Gunfire Effects											
								585			

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## Gyroscopes

1893 1894 1186

-H-

## Half-Space

2490 2311

728

## Hamilton-Jacobi Theory

2497

## Hamiltonian Functions

2113

## Hamiltonian Principle

2250 1841

1954

## Hammers

2247

## Handbooks

use Manuals and Handbooks

## Hankel Transformation

105

1879

## Harbors

1513

2605

## Hardened Installations

251 872

149

## Hardened Structures

use Hardened Installations

## Harmonic Analysis

2300

323 1724 2265 2326

1489

2320

2666

## Harmonic Balance Method

1578

2458

## Harmonic Excitation

1132 1843 234

316 548 2068 329

2164

2706 2117

1599

## Harmonic Functions

1951

234

## Harmonic Index

1441

## Harmonic Response

2070 2311 2512

1064 315 2046

2330

1534 2045

## Harmonic Waves

2711

1904

## Head (Anatomy)

1013

## Heat Exchangers

1930

1082

2165

558 2649

2088

## Helical Gears

2060

2642

1039

2059

## Helical Springs

2471

1025

## Helicopter Blades

use Rotary Wings

## Helicopter Noise

1740 961

54

55

56

1809

1810 1811

1979

2449

## Helicopter Rotors

300 961 1552 1553 1554 55 126

1178 2619

1331 1812 1813 2234 1175 1246

2181 2232 2033 2624 1245 2386

2103

1756

2233

2055

2385

## Helicopter Seats

1010

## Helicopter Vibration

2242 2623

## Helicopter Vibration Effects

1738

## Helicopters

300

72

1554 2035

57

58

1309

1970

1812

1814 2625

1267

2458 2469

2034 2745

2468

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Helmets	586	Hovercraft	use Ground Effect Machines	
Helmholtz Resonators		Human Factors Engineering		
1821 2132 1114		440 441 442 443 444		439
2244		662		
High Frequencies		Human Head		
962 2143 2084		use Head (Anatomy)		
High Frequency Excitation	2597	Human Response		
High Frequency Resonance Technique	1438	770 771 62 63 64 65 56 1007 1008 769		
High Frequency Response		1010 1311 772 493 494 655 66 2688 1009		
2414 1555		1310 2431 1012 773 774 1015 1016		1429
High Speed Transportation	278 749	1810 1312 1013 944 1315 2756		2239
High Speed Transportation Systems		1313 1014 2445		2329
276		1803 1314		
616		2374		
Hill Equation	1956	Human Spine		
Hole-Containing Media		1011 1012 1013		
1072 333 105 1657		Hunting Motion		
1602 1075			1296	
Holographic Techniques		Hydraulic Dampers		
1643 514 95 2136 2157 1169		2123		2718
614 1645		Hydraulic Equipment		
2134 2135			5	
Holography	2757 2758	Hydraulic Servomechanisms		
Holonomic Systems		1263		
1183		1453		
Hospitals		Hydraulic Systems		
350		2511 1084		
Household Appliances	939	Hydrodynamic Excitation		
310		900 1602 534		2438
Housings	518	1280		
		1530		
		Hydroelectric Power Plants		
			1516	
		Hydrofoil Craft		
			466 467	
		Hydrophones		
		381		167
		Hydrostatic Bearings		
			2254	

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# Interaction: Soil-Foundation

728

## Interaction: Soil-Structures

1080 261 2372 263 584 235 246 1137 248 29  
 2090 361 393 724 265 1206 438 249  
 1131 583 2604 935 868 1079  
 2011 2013 .975 878 2529  
 1625 898 2599  
 2008

## Interaction: Solid-Fluid

1730

## Interaction: Structure-Fluid

900 261 632 2423 1514 2205 196 1737 2508 2419  
 2420 1431 982 1624 2495 556  
 1711 2422 1076  
 2421 2512 2016  
 2501

## Interaction: Structure-Foundation

415 237

## Interaction: Structure-Medium

30

## Interaction: Tire-Pavement

2430 987 38  
 1027

## Interaction: Vehicle-Guideway

986 278  
 1226

## Interaction: Vehicle-Structure

985 696  
 2595

## Interaction: Vehicle-Terrain

281 225

## Interaction: Wheel-Pavement

201 2023 2316

## Interferometers

1673 1674 1645 2136  
 2134 2135

## Interior Noise

1810 481 2642 1304 756 457 1808 479  
 2444  
 2614

# Intermittent Motion

2702

## Internal Combustion Engines

791 1492  
 1661 2162

## Internal Damping

1582 413 1414 1416 9  
 1593 2364

## Internal Friction

2583

## Internal Pressure

436

## Internal Resonance

877

## Isolation

2525

## Isolators

300 411 12 2623 784 495 776 497 778 779  
 500 1231 2246 777 1249  
 780 2247  
 1020

## Iteration

2542 1144

J-

## Jet Engines

293 294 576 2148

## Jet Noise

1000 1001 2443 294 1116

## Joints

1150 1571 1352 813 344 1355 206 1047 838 529  
 2261 1582 1353 1034 1835 1356 1837 1048  
 2331 2152 1583 1354 1836 2327 2278  
 2262 2003 1584 2676 2577  
 2173 2644  
 2223 2674  
 2263

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Journal Bearings  
 520 521 212 803 1575 306 307 808 809  
 810 1481 1752 2253 806 807 1338 1339  
 1830 2383 2056 1828 2479  
 2636

-K-

Kinematics

1454

-L-

Lagrange Equations

1801 2153 816 398

Laminates

use Layered Materials

Lamps

661

Landing

1721 2225 1806  
 2111

Landing Gear

1721 1548  
 1798

Landing Impact

use Landing  
 Impact Shock

Landing Shock

use Landing  
 Impact Shock

Landing Simulation

use Landing  
 Simulation

Laplace Transformation

2490 1451 105 1879

Large Amplitudes

1061 2083 2665 2079  
 1861

Lasers

2353 1645 2346

Lateral Response

1403 1969

Lateral Vibration

762 2315 417

Launching Response

501 489

Lawn Mowers

2417

Layered Damping

2670 332 599

Layered Materials

1130 1151 322 553 554 825 1606 1607 1659  
 552 913 1064 895 1696 1657  
 2692 1953 1074 1055 2336 1717  
 1134 1065 2666 2487  
 1204 2075  
 1664 2305  
 2074  
 2634  
 2754

Leaf Springs

509

Least Squares Method

993 906

Life Line Systems

2672 1083 864 699  
 899

Life Tests

217 218

Linear Analysis

use Linear Theories

Linear Systems

1181 1715 1716 187 1139  
 2321 1945

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# Linear Theories

1968

## Linings

2683

## Linkages

1360 1361 2012 1043 2264 2265 1357 78 1359  
1358  
1448

## Liquid Filled Containers

use Fluid Filled Containers

## Liquid Propellant Rocket Engines

652

## Liquid Springs

497

## Locomotives

2211 272 43 44 1988

## Longitudinal Response

1295 1969

## Longitudinal Vibration

1272 2276 2488

## Low Frequencies

2102 1517 1009

## Lubrication

520 1354 1037 2479

810

1250

1340

1350

## Lumped Mass Method

use Lumped Parameter Method

## Lumped Parameter Method

1360 921 1942 2115 2166

1750 2365

2755

## Lyapunov's Method

1790 1612 1815

-M-

## Machine Diagnostics

use Diagnostic Techniques

## Machine Elements

use Machinery Components

## Machine Foundations

2010 1511 1512 233 2555 727 2009

2630 2011 2012 1023

2631 2632 1773

## Machine Noise

use Machinery Noise

## Machine Tools

1760 1141 12 1033 684 685 686 7 8 1279

1411 2122 2193 1034 965 966 687 1278

2591 2592 1274 1275 1496 1727 1498

1314 1315 1897

## Machinery

1460 181 602 603 1276 1477

2580 1391 1192 1443 1466

1471 1352

1472

## Machinery Components

1450 1051 1172 1193 1424 396 1168 1169

1460 1442 2334 1046 1449

1469

## Machinery Foundations

use Machine Foundations

## Machinery Noise

851 852 63 854 566 127 888 199

1391 853 856 887 2038 879

2101 939

## Machinery Vibration

1020 851 852 1023 1464 1156 1459

1390 1391 932 1313 1396 1699

2630 2631 1312

1322

1512

2162

2632

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# Measurement Techniques

610	231	282	283	384	245	616	567	168	619
1680	621	702	383	884	945	856	617	618	1009
	761	882	483	894	1155	1156	2137	888	1909
	891	892	883	2084	2135	1366		1668	1919
	1421	1422	1643	2134	2705	1766		1678	
	1681	1912	1913	2434		2136		2138	
		2472							

# Measuring Instrumentation use Measuring Instruments

## Measuring Instruments

620	381	162	283	164	375	376	377	378	889
1300	1491	282	383	374	885	616	887	1418	1669
1670	1671	382	893	1264	1665	886	1417		1919
1910	1911	1672	1673	1404		1416	2137		1939
	2141	1682	2723	1414		1676	2157		2339
	2541			1674		1776			2359
	2721			1914		2126			2519
				2574		2346			2559
						2466			

# Measuring Techniques use Measurement Techniques

## Mechanical Admittance

1610	1891		1855	2657
------	------	--	------	------

## Mechanical Drives

1272	1273	2064
1462		
2192		

## Mechanical Elements

1132
------

## Mechanical Impedance

2038	1279
------	------

# Mechanical Reliability use Reliability

## Mechanical Systems

1460	1451		2194	1465		927
	1461					1397

## Mechanisms

1451	1182	1453	1454		2746	197	78	79
	1362		2264			1377	1358	1269
	1452					1457	2248	
	1472					1477		
	2702							

# Membranes (Structural Members)

120	91		2276	2657		1879
	321					

## Metal Working

690		2393	1274		6	687	1278	689
1500		2593				1497		

## Metals

1558
------

## Method of Characteristics

863
-----

## Method of Impedance Matching

415
-----

## Method of New Quotient

71
----

## Method of Weighted Residuals

2165
------

## Milling (Machining)

1276
------

## Mindlin Theory

1071		1375	1376
------	--	------	------

## Mines (Excavations)

743	944	1665
		1925

## Minimization Technique

2735
------

## Minimum Weight Design

2671		194
------	--	-----

## Mining Equipment

682	1773	744
792		944

## Missile Launchers

501
-----

## Missile Silos

872
-----

## Missiles

1160	1161		2144
------	------	--	------

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# Modal Analysis

340 491 332 303 1704 2095 236 37 758 589  
 890 651 1702 1123 2004 2695 696 337 958 679  
 1720 1381 1942 1983 1006 1947 1228 1709  
 1800 2351 2312 2543 2206 2139  
 2571 2732 2743 2606

# Modal Constraint Method

97

# Modal Control Technique

786

# Modal Damping

366 657

# Modal Superposition Method

1112 2415 186

# Modal Synthesis

2124

# Modal Tests

2725 2236 1917

# Mode Shapes

330 921 1062 1073 1144 75 1026 1047 998 119  
 1410 1071 1332 1373 2085 1307 1048 1069  
 1611 1402 2273 2275 2607 1608 1649  
 2503 2655 2318 2709  
 2705

# Model Testing

1131 1513 734 1167 2209  
 1683

# Model Tests

use Model Testing

# Modulus of Elasticity

162

# Monitoring Techniques

1940 2161 2162 1173 2154 2356 2358 1439  
 2160 2556 1939  
 2360 2359

# Monte Carlo Method

2510 1505 1306

# Moorings

2486 2267

# Motorcycles

460 461 462 463 1744 2149  
 1743

# Motor Vehicle Noise

2021 2022 793 1264 1495 757 1679  
 2062 1995 2137 2187

# Motor Vehicles

661 1743 1264 39  
 1744 199

# Motors

310 2161 1382 1633 2685 907 2519

# Mountings

781 2452 1377 2628  
 2611 2627

# Moving Loads

2280 1761 1762 224 225 696 1627 2069  
 1772 985 986  
 1846  
 2316

# Moving Strips

75 1588  
 2398

# Mufflers

790 791 792 793 14 15

# Multi Beam Systems

1596

# Multidegree of Freedom Systems

2741 1942 2163 2565 366 927  
 2312

# Multistory Buildings

230 701 972 23 2004 715 706 717 1508 19  
 840 2131 1093 2005 716 777 1968  
 2000 1143 1507  
 1503

# Musical Instruments

532 533

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**Nastran (Computer Programs)**

2570	2033	765		2748	2579
2750				2749	

**Natural Frequencies**

20	1071	1062	1373	4	75	1026	107	98	539
330	1531	1142	1843	314	95	1696	697	328	1029
1240	1611	1332	2503	434	555	2536	817	998	1069
1410	2671	1372	2653	1144	2075		1047	1048	1329
1890		1402		1204	2085		1067	1608	1509
2650		2142		2494	2275		1307		1649
		2312		2724	2315		1777		1749
		2382					1847		2579
							2387		2649
							2607		2669
									2709

**Newton-Raphson Method**

1144

**Noise (Sound)**

64

**Noise Analyzers**

2539

**Noise Barriers**

1120	851	1122	273	844	1805	2036	567	2688	879
2200	1121	1822	2693		2105				1119
		2302							1729
									1819
									2189
									2299

**Noise Control**

use Noise Reduction

**Noise Generation**

130	131	132	33	174	125	126	1487	68	669
490	691	962	113	814	855	276	2047	748	689
690	1111	992	133	834	1045	456	2187	1478	989
750	1391	1392	1273	1234	1245	676	2257	1488	1289
910	1491	1552	1353	2374	1255	856		1528	1479
1000	1501	2202	1493		1995	1756		1728	
1230	1701		1993		2635	2686		1988	
1390	2101		2443					2298	
1640	2521		2593					2698	
1880									
2020									
2190									
2520									

**Noise-Induced Excitation**

2621

2235

**Noise Measurement**

850	621	482	273	1264	945	456	567	618	619
2520	761	612	483	2214	1885	616	2137	888	1679
2700	771	1002	793	2444	2445	1806	2227	1638	2339
	881	1802	1543			2446	2447	1808	2449
		1912	2103					2138	2539
		2432	2723					2188	2699

**Noise Meters**

use Sound Level Meters

**Noise Path Diagnostics**

1807

**Noise Prediction**

930	961	902	1293	274	2575	276	127	2218	489
1390	1001	1992		814		2576	1977	2448	999
2700	1541			1544			2217		1109
				2374					1219
				2614					1979
									2449
									2689

**Noise Propagation**

2101

**Noise Reduction**

200	131	482	13	54	35	546	17	18	9
290	291	682	373	294	115	566	47	338	39
420	681	692	693	464	135	756	277	658	199
430	741	742	743	744	515	1526	337	688	599
740	781	792	793	754	675	1736	457	788	659
790	1261	932	853	944	1085	1756	677	1478	739
1260	1501	1102	1323	1044	1165	2296	757	1728	789
1380	1991	1302	1383	1164	1245	2396	947	1758	939
1490	2021	1522	1523	1264	1495		1117	1808	1119
1500	2101	1542	1543	1484	1755		1257	2258	1479
1880	2191	2022	1553	1494	2105		1487	2298	1759
1990	2681	2102	1643	1744	2375		1517	2698	1809
2020		2282	1743	1824	2525		1527		1819
2220		2302	2183	2104	2615		1727		1989
		2432	2613	2294			1757		2189
		2442		2304			2397		2219
		2522		2324			2417		2389
				2394			2467		
				2424					
				2614					

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# Noise Source Identification

310 1051 492 1643 854 1115 1116 887 888 739  
750 1931 1492 2394 1486 1527 1478 749  
850 2191 2062 2476 1807 1638 2589

# Noise Tolerance

1310 773 655 1429

# Noise Transmission

1527 2658

# Nonconservative Forces

1842  
1852

# Nondestructive Testing

use Nondestructive Tests

# Nondestructive Tests

2170 931 1162 2583 2034 2355 946 1677 208 1169  
2261 2724 2377 1168  
2547 2348  
2757 2548  
2758

# Nonholonomic Systems

2430

# Nonlinear Analysis

use Nonlinear Theories

# Nonlinear Damping

2712

# Nonlinear Programming

411

1937 1938

# Nonlinear Response

190

1054 2065 646 2497 648 1409  
1094 2755 916 1068  
1964 1376 2618  
1576

# Nonlinear Springs

1557

# Nonlinear Systems

1470 1191 822 1943 824 815 1146 1147 2738 1299  
1840 1291 2572 2533 875 1966 1887 2739  
1601 2742 2713 1715 2566 1957  
2107  
2167

# Nonlinear Theories

320 2381 2562 403 1954 2735 637 1188 1189  
470 1713 2604 1207 1198  
2080 2118  
2710

# Nonlinear Vibrations

2563

# Nonparametric Identification Technique

1291

# Normal Modes

2730 171 2163 1244 2705 1106 2147 2318 2439  
2750

# Nozzles

2220 2306 2698 339  
1639  
2219

# Nuclear Explosion Damage

871 22

# Nuclear Explosion Effects

1222 1223 149

# Nuclear Explosions

860 872 2483 354 355 1136  
2112 1135  
2532

# Nuclear Fuel Elements

747

# Nuclear Power Plants

780 181 982 2063 264 265 746 37 438 2599  
980 981 2653 976 2017 2208  
1236 2607 2608  
2286  
2606

# Nuclear Reactor Components

650 1291 112 2423 1595 37 2578 1629  
940 1611 632 2425 2287 2419  
1930 2271 1602 2427  
2070 2517  
2420 2577  
2647

# Nuclear Reactor Containment

823 2016 828  
2206  
2426

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Nuclear Reactors										
1290	2422	1083	34		266	437	1518	249		
						1227	2418	899		
						2207				
Nuclear Reactor Safety										
2420	2421	2422	2423			2577		2419		
Nuclear Weapons Effects										
						2457		149		
Numerical Analysis										
191	1862	1123	284	405	1196	1067	1198	1199		
571		1463	404		1576	1197	1408			
1611			1004		2736	2667				
2531			1464			2697				
						2737				

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Oceans										
241				145	146	147				
Off-Highway Vehicles										
271					516			759		
Off-Shore Structures										
1780	261	32	543	934	1775		237	248	979	
	1781	1782		1514			897	738	1779	
	2331						1777	828	2019	
								1778	2209	
								2018		
								2428		
Oil Film										
				1334	1335				1579	
Oil Film Bearings										
				1334	1335					
Oil Refineries										
	723									
One-Degree-of-Freedom Systems										
				2704						
Open-Containing Media										
				845						
Optical Measuring Instruments										
	1672						1418			

Optical Methods										
									1677	
Optimization										
40	411		1263	194	1405	1336			1468	1229
1470	1351			1254	1725	1366				1469
2590	1471			1314	2625	1946				
	1601									
Optimum Control Theory										
							495	496		
Optimum Design										
	1992	2693	1204			2056	1017		2719	
							1597			
Orthotropism										
				104	2665					

Oscillation										
						635		327		
								547		
								577		

Oscillators										
160	1132		184	2535	1196		867	1188	1189	
590	2362				1716			2118		
2740					2116					

Oscilloscopes										
380										
2340										

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Packaging										
							646			
Packaging Materials										
								587		
Panel-Cavity Response										
	1892								2658	
Panels										
120	1381	592	93		1305	546	837	1098	2499	
	1601	822	823		2125	1086	2277	2098	2659	
			2073					2657	2658	

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# Parameter Identification Technique

920	651	192	193	484	2365	1466	267	268	2169
1201	712	933	994	2405	1536	437	1718		
	922	1203	1434		1766	1467	1938		
	2742	2373			2026	2027	1958		
		2743			2266	2367	1968		
						2567	2028		
						2617	2168		
							2678		

# Parametric Excitation

951	2712	2114	366	2707
1371				
2061				

# Parametric Response

996	649
-----	-----

# Parametric Vibration

2163	2164
------	------

# Passive Isolation

990	2242
-----	------

# Pasternak Foundations

2069
------

# Pattern Recognition Techniques

1921
------

# Pavements

2170	2332	2014
------	------	------

# Pendulums

1414	1416
------	------

# Periodic Excitation

1050	41	1724	1055	1056	647
1650			2535	1986	1457
2710					1867

# Periodic Response

272	1363	284	1575	1616	1147	589
532	1593	974	1605	2586	1887	1599
1132	1703	1254	1725			
1952	2113	2265				

# Periodic Structures

1731	1402	1483	2706	1607	2749
2622					

# Perturbation Theory

1702	204	1575	1186	187	2179
2362				807	
				2367	
				2497	

# Photoelastic Analysis

2152	613	1926
------	-----	------

# Piers

840	117	1099
-----	-----	------

# Piezoelectricity

2140	1651	1652	2579
------	------	------	------

# Piezoelectric Transducers

620	2341	1863
2140		

# Pile Driving

33
----

# Pile Structures

1200	2013	724	246	247	248	249
						979

# Pipe Joints

2674
------

# Pipelines

250	252	1083	1084	835	836	2507	2288	29
2090	2092	1873			1626		2678	899
	2292	2513						
	2672							

# Pipes (Tubes)

1380	2291	1082	1623	834	1625	1596	297	1628	729
1510		1872	2293	1624	2675	2506	1627	2508	1379
2290		2272	2673	2674		2676	2677		1509
									2089
									2289
									2439
									2509

# Piping Systems

650	111	112	1083	2465	2286	2287	878	1629
780	2091	2262				2427	2418	
2510	2301							

# Pistons

1991	669
------	-----

# Plane Mechanisms

636	2557
-----	------

# Plastic Deformation

1378
------

# Plastic Properties

1859
------

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# Plastics

2360 2754 2547 1559

# Plates

100 101 102 103 94 95 96 97 328 99  
170 121 122 323 104 105 106 327 548 329  
550 171 322 343 324 325 326 547 1058 549  
900 251 412 553 554 555 826 827 1068 1059  
1060 551 552 1063 824 825 1056 937 1108 1069  
1090 1061 1062 1073 1064 1055 1066 1057 1608 1609  
1610 1071 1072 1603 1604 1065 1376 1067 1858 1859  
1860 1241 1602 1863 1864 1115 1606 1117 2078 2079  
2080 1761 1762 2083 1904 1375 1856 1377 2248 2279  
2280 1861 1862 2283 2074 1605 1896 1607 2278 2669  
2320 2081 2082 2663 2084 1805 2016 1657 2668  
2500 2281 2282 2664 1855 2046 1857  
2630 2631 2632 1865 2076 1887  
2660 2661 2662 2045 2146 2077  
2670 2075 2666 2477  
2665 2667

# Pneumatic Isolators

2041 12 2466 2247

# Pneumatic Machine Drives

1462

# Pneumatic Springs

1570 1322

# Pneumatic Tires

1027

# Point Source Excitation

1864

# Polymers

885

# Porous Materials

1820 2261 1024 155 1816 1817

# Power Plants (Facilities)

use Electric Power Plants

# Power Series Method

1384

# Power Spectra

634 2119

# Power Transmission Belts

1589

# Power Transmission Systems

660 1 183 964 2485 1346 1157 1268 1269  
1270 1271 963 2194 1356 1267 2718 1349  
1941 1759  
2171

# Prediction Techniques

1150

# Presses

133 2178 789  
373  
2593

# Pressure Vessels

34 435 436 2418  
2204 2205 1776  
2206

# Printing

1392 2039

# Probability Density Function

2211 1965

# Probability Theory

1200 924 1465

# Proceedings

410 201 932 933 934 655 656 1477  
2370 931 1222 1223 1224 935 936  
2171 2172 2173  
2371 2372 2373  
2751

# Projectile

622

# Propellants

60 61

# Propeller Blades

2381 2474 2635 2249

# Propeller Induced Excitation

2216 667 49  
479

# Propeller Noise

2700 483 425 1528 1109  
2613 515 2699

# Propulsion Systems

2440

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## Protective Shelters

760 871 22

## Pseudo Force Technique

2735

## Pulse Compression Techniques

885

## Pulse Excitation

240 1403 1624

1629

2490

2089

## Pulse Shaping Techniques

1944

## Pumps

220 2391 2392 673 674 5 1317 1368 1259  
1587 1438 2159

## Pyrotechnic Shock Environment

623

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## Quadratic Damping

2715

## Quartz Resonators

170 171 169

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## Racks

747

## Radiation Efficiency Method

1051

## Radioactive Materials

1564

## Rail Transportation

750 751 752 753 754 1145 1736 718 719  
770 771 772 773  
2020

## Railroad Cars

750 2433 275 46 1297 1268  
285 286  
1325 1296  
1785 2436

## Railroad Tracks

262 283 2434 795  
272  
282

## Railroad Trains

70 2142 273 274 225 276 1298 749  
245 616 989  
275  
1295

## Railroad Transportation

use Rail Transportation

## Railroad Vehicles

use Railroad Trains

## Rails

use Railroad Tracks

## Railway Vehicles

use Railroad Trains

## Railway Wheels

70 989

## Random Decrement Technique

491

## Random Excitation

40 401 1592 94 185 406 1647 1188 389  
530 591 184 495 2116 2707 2648 1139  
1950 1594 1465 1569  
2150 1609  
2729

## Random Loads

2538

## Random Parameters

1181 1194

## Random Response

1200 1873 1787 1158

## Random Vibration

530 2151 1083 156 1377 388 2119  
2431 2533 1888

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# Response Spectra

2527 1648

## Retaining Walls

342 734 1095

## Reverberation Chambers

1112 1385

## Reviews

200 391 42 203 204 205 206 207 938 1229  
940 411 202 413 1974 1225 396 657 1228 1729  
2580 941 412 923 2174 1735 1226 937 1738 1739  
1731 942 943 2584 1975 1736 1227 1978  
2581 1732 1733 2754 2175 1976 1737  
2582 1973 2375 2176 1977  
2752 2583 2755  
2753

## Ride Dynamics

280 461 42 1973 2024 66 498  
460 2211 462 1788

## Rigid Rotors

1481 1035 2057

## Ring Springs

1337

## Rings

1622 1483 1104 2125 2716 1858 1839  
2505

## Ritz Method

1591 1062 1373 2164 1608  
1072 2664

## Road Roughness

40 281 2524 1787 459

## Roads (Pavements)

1772

## Road Tests (Ride Dynamics)

use Ride Dynamics

## Rocket Launching

768

## Rocks

379

## Rods

2490 2271 82 83 194 665 2647 538 539  
2471 313 1658 1049

## Roller Bearings

2480 1032 1336 518 519  
2192 1829

## Rolling Contact Bearings

use Antifriction Bearings

## Rolling Friction

1911 693 45 1668

## Roofs

560  
700

## Rooms

1190 971 2694

## Rotary Compressors

1983 948

## Rotary Inertia Effects

use Rotatory Inertia Effects

## Rotary Presses

2039

## Rotary Wings

2251 2232 1813 2474 126 2458 2619  
2033 2336  
2233

## Rotating Structures

330 1981 1252 663 4 665 2586 417 1408 819  
960 1482 1253 414 2505 1587 2638 959  
2380 2652 1373 1174 2715 1369  
1433 1254 1939  
1463 1434 2039  
1703 1694  
2753 2184

## Rotational Response

2197

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# Rotatory Inertia Effects

121	1843	825	816	797	1848	1609
551		1375				1849
1071		1595				1859
1861		2115				
2471						

# Rotor Bearing Systems

1250	1251	2	1033	784	1985	306	307	1748	309
1480		1752	2383	1034		416	517	2478	1239
1750		2182				956	957		1249
2480						1176	1177		2179
						2056	2587		

# Rotor Blades

1330	71	1022	304	305		1178	1029
2050	211	1572	1574			2468	
	1331		2374				
	1811						

# Rotor Blades (Rotary Wings)

use Rotary Wings

# Rotor-Induced Vibration

300	2242	1554
-----	------	------

# Rotors (Machine Elements)

630	951	952	3	124	125	126	177	178	219
950	961	962	123	214	415	176	217	218	949
960	1041	1242	213	414	665	526	1257	538	959
1240	1241	1482	953	664	955	666	1447	958	1239
1330	1331	1982	1243	904	1035	806	1937	1938	1309
1480	1481	2182	1433	954	1245	1176	2057	2458	1409
1750	1751		1983	1174	1445	1246	2347	2558	1749
2010	2181		2183	1244	1755	1446	2387	2728	2559
2040	2521		2753	1654	2055	1756	2587		
2180	2751			1734	2385	1986			
2390				2384		2386			

# Rubber

use Elastomers

# Rules (Instructions)

662	425
-----	-----

# Runge-Kutta Method

664	405
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-S-

# Safety (Nuclear Reactors)

2510

# Safety Belts

use Seat Belts

# Safety Restraint Systems

270	451	452	1563	1784	445	447	448	449
450	1561	1562	1783			1707		1519
	1741	1742						1799

# Sand

390	861	362				1118	259
							389

# Sandwich Laminates

use Sandwich Structures

# Sandwich Panels

use Panels  
Sandwich Structures

# Sandwich Structures

412	314	2716	937
1592			

# Satellite Antennas

use Spacecraft Antennas

# Satellites

2620	1003	1004
2750		

# Saws

691	692	2476	1727
1311		2477	

# Scaling

2450	901	902	2555	626	999
	1431				1929

# Screws

1835

# Seals (Stoppers)

1370	2645	2646	1587	1368	1369
------	------	------	------	------	------

# Seat Belts

270	991	1742	1783
-----	-----	------	------

# Abstract

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Secondary Waves  
341

Seismic Analysis  
2310

Seismic Barriers

Seismic Design

700	261	342	243	364	705	36	227	708	249
710	821	702	703	924	735	706	717	778	779
870	1191	832	713	1504	745	746	917	828	899
1600	1511	912	723	2004	915	776	2017	858	919
	1831	2372	823	2464	925	926	2607	918	959
		2462	833	2684	935	976		1598	1999
			923		1235	1236		1768	2109
			933		2295	1626		2008	
			1953			2596		2498	
			2003			2606		2608	

Seismic Detection

134 355  
354

Seismic Excitation

860	981	152	863	724	935	2496	747	118	119
1770	2311	172	893	894	975		867	778	869
2530	2531	232	1083	934	1625		917	968	2529
2600		832		1704			977	1518	
		922		1774			1077	2108	
		2292		2744			1507	2528	
		2562					2107		
		2732							

Seismic Isolation

2462 2463 2464 2465 1019

Seismic Response

250	701	242	23	24	235	226	117	698	709
780	711	402	253	254	255	716	837	828	729
840	841	712	543	584	715	836	897	898	839
980	901	722	583	704	725	1766	1137	978	969
1290	1101	1872	723	714	745	1886	1767	1098	1099
1510	2001	2002	943	1054	835	2006	2167	1508	1769
1920	2091	2092	1503	1854	1765	2526	2197	1598	2309
2000	2131	2672	1853	2274			2427	1768	2499
2070	2601		1873				2527	1968	
2090			1923				2747	1998	
			2413					2098	
			2553					2198	
								2518	
								2598	

Seismic Response Spectra

870	151	702		824		737	858	2109
	1511	912					918	
		1942					1648	
							1998	

Seismic Waves

341	2112	383		865	356		868	859
		863			866			
		913						

Seismometers

1676

Self-Excited Vibrations

1321	312	673	2064		966	1397	1278	1469
	2392	953	2254		2476	2507		
		963			2616			
					2746			

Semitrailers

1294

Servomechanisms

1440 562

Shaft Couplings

905

Shafts

2380	1	182	183			417	608
	1421	212	1753			2387	1658
		1752					2728
		2482					

Shafts (Machine Elements)

1981	1042	953	954	2025	666	1157	668
					906	1247	1248
					1176	2347	1268
							2178
							2588

Shakers

1923 2425 2146

Shear Modulus

370

Shear Strength

390 823 368

Shear Wave Propagation Technique

863

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Shells										Shock Resistant Design										2719										
110	331	332	343	334	1075	556	107	108	109																					
820	1611	1082	1613	1074	1515	1616	557	828	829																					
830	1621	1612	2503	1614	1615	1866	1077	1078	1079	Shock Response																				
1620	1871	1652		2284	2045	2006	1617	1378	1869	1533										1225	646	2307								
1870	2491	2502		2504	2085	2046	1867	1618												2175										
	2501	2582		2584	2125	2086	2357	1628																						
	2671				2285			1868		Shock Response Spectra																				
					2415			2578		1732										364	1436	579								
Shells of Revolution										Shock Tests																				
1080									1079	561										623	1455	1436	1907	1908	1159					
																				633	1905									
Ship Hulls																				1693										
	1531					2215	2216			49	Shock Tube Tests																			
Shipboard Equipment Response																				1907										768
	501							1287																						
	561									Shock Wave Propagation																				
										351										352	83	154	155	296	577	578	1629			
Shipboard Machinery																				571	153	574	1645	576	1927					
																				911	1393	1644	1925	1646						
																				1874				2306						
Shipping Containers										Shock Wave Propagation Technique																				
										260																				
Ships										Shock Wave Reflection																				
1530	1301	762			2214	465	466	47	48	1529																				
2370	1531	1302						207	1528	1699											2675									
2440	2441							547	2438	2369																				
										1947										2439										
																				353	1394	535	948							
Shock Absorbers																				2703	575									
2470	411	1253				785				789	Signal Processing Techniques																			
																				1325			2039							
																						2719	2162	1436	1888	1389				
																				1456										
Shock Excitation										Signature Analysis																				
150	1012		2053	1015						2489	1291										205	1436								
Shock Isolation																				2161										
	941	782					646				Silencers																			
Shock Isolators																				2102					297	788				
	501									497	Silos (Missile)																			
Shock Loads										use Missile Silos																				
use Shock Excitation										Simulation																				
Shock Measurement										460										1131	392	393	184	455	1096	1167	1688	1549		
	use	Measurement Techniques								490										1191	632	1183	634	545	1136	1307	2429			
Shock Response										1461										872	1223	894	1095	1166						

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## Simulation (continued)

2111 1462 1473 1674 1135  
 2441 2492 2694 1325  
 1455  
 1555

## Single Degree of Freedom Systems

2731 1452 867 1889  
 2167

## Skateboards

1525

## Skew Plates

1071 1862  
 1861

## Skid Resistance

510 983

## Skin-Stringer Method

2278

## Skin (Structural Members)

2297

## Slabs

1412 1154

## Sleeve Bearings

2387 1339

## Slider Bearings

1340 1037

## Slip Amplitude

1327 38

## Slip Damping

2475

## Slip Joints

2003

## Sloshing

831 2504 1866 1777 1518  
 981 2528

## Soil Compacting

2201 243 1285

## Soils

240 241 242 243 244 875 246 27 238 239  
 360 391 363 2015 1886 237 358 359  
 370 861 387 368 369  
 897 898 409  
 1118 1079

## Solar Arrays

1006  
 2276

## Solid Propellant Rockets

109

## Sommerfeld Number

1830 1423

## Sonic Boom

2374 1545 2177 2378 129  
 2694

## Sound Attenuation

1540 1091 1632 884 145 1117 1118 369  
 1710 1641 559  
 1129

## Sound Generation

1730 2381 857  
 1257

## Sound Insulation

use Acoustic Insulation

## Sound Level Meters

611 612 2573

## Sound Measurement

350

## Sound Power Levels

1385

## Sound Pressure Levels

873 35 139  
 883 1385

## Sound Pressures

1881

## Sound Propagation

2100 1631 1632 143 114 1865 1106 1087 1128  
 2291 2682 1123 2294 1875 2096 1107  
 2701 2514 2095 1877  
 2515 2097

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Squeeze Film Dampers  
2253 1354 1036 2478 1409  
1654

Stability  
220 1031 652 353 594 185 96 307 268 309  
400 1251 1482 1463 1374 215 306 647 1298 829  
540 1601 1612 1623 2114 275 656 987 1398 1309  
830 1842 1025 1246 1867 1949  
1050 1525 1786  
1760 1795 2056  
1815  
1985

Stability Analysis  
use Stability

Stability Methods  
592 984 365

Stalling  
2181 2048

Standards  
use Standards and Codes

Standards and Codes  
350 701 1012 1233 1014 935 36 1667 2138 659  
660 1231 1232 2214 945 706 2197 2109  
1740 1941 2286  
2756

Statistical Analysis  
1200 431 862 53 704 1715 406 407 568 139  
1450 2091 1572 914 2336 917 918 649  
2740 2161 1782 1174 1567 1528 959  
1812 1794 2107 1698 1579  
2167 1838 1589  
2108 2609

Statistical Energy Analysis  
2621

Statistical Energy Methods  
1714 765 766 1818  
2235  
2525

Statistical Linearization  
2320 286

Steady State Excitation  
use Periodic Excitation

Steady-State Response  
use Periodic Response

Steam Generators  
use Boilers

Steam Hammer  
111

Steam Turbines  
217 218

Steel  
1600 1054 545 506 2127 709  
1900 846 839  
1559  
2309

Steering Gear  
1566 1567  
1707

Stick-Slip Excitation  
2047

Stick-Slip Response  
963 367

Stiffened Panels  
2277

Stiffened Plates  
103 1066 1608  
2278

Stiffened Shells  
2671 1515 557 1868

Stiffness  
711 1033 1034 2025 666 1509

Stiffness Coefficients  
1240 72 2163 394 2125 1036 247 2638 9  
1250 804 2625 2267 1339  
1830 1244  
2070 2164  
2480 2314  
2434  
2534

Stiffness Methods  
642

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Stochastic Processes										Submerged Structures									
1181	1572	253	634		406	1647	1468	909		1611	1622	2703		335	556	1737	2668		
1511			824		1716		1498	919		1851					2016	2077			
2561								2609		2501					2076				
								2739							2086				
Storage Tanks										Substructure Coupling									
820	831	722	833	2504				1077	1019	use Component Mode Synthesis									
	981	832						1777											
Stress Waves										Substructuring Methods									
								588		2050	2011	942	2733	2124	1185		2098	1079	
												1702					1649		
																	2499		
																	2709		
Strings										Subway Railways									
530	531	312	533	94	815			1588											
		532																	
Structural Components										Supersonic Aircraft									
use Structural Members																			
Structural Dynamic Response																			
								1068											
Structural Elements										Supports									
use Structural Members										1510	1341		2603					1509	
Structural Members										Surface Effect Machines									
120	121		573		206	1117	838	2499											
340	341					2177	2518												
1660	841									Surface Effect Machines									
1890	1101									1521	1302								
2110	1731									2441									
Structural Response										Surface Roughness									
								878		2431			1984				348	349	
	583									2641			2524						
Structural Synthesis										Surges									
921								786				1262	673						
Structure-Borne Noise										Surveys									
850		752	1913					2038		use Reviews									
Strudl (Computer Program)										Suspension Bridges									
								1209				1143	1764	695	16		1998		
Subharmonic Oscillations										Suspension Systems (Vehicles)									
										10	11	272	503	1324	495	786	1297	498	459
										280	1571	502	2043		2245	1326		508	499
										990		1522	2213					1568	1569
										1570		2142							
Submarines										Symposia									
								1614		use Proceedings									

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## Synchronous Motors

2586 1398  
2168

## System Identification Techniques

1201 972 2193 24 1776 497 408 1719  
1291 1202 1054 1966 1507 2108 2199  
2741 2366 1767  
2566 1967

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## Tanks (Combat Vehicles)

271

## Tanks (Containers)

820 831 2285 2626

## Tape Drives

2590

## Tape Recorders

2398

## Temperature Effects (Excitation)

use Thermal Excitation

## Temperature Effects (Other Than Excitation)

326

## Tensile Strength

2268

## Tension Data

2486

## Test Data

use Experimental Data

## Test Equipment and Instrumentation

1690 1691 1692 1693 44 385 1906 1427 208 1689  
1920 1922 2143 244 1905 1907 1428  
2142 1925 2147 1908  
2145 2607 2148

## Test Facilities

1550 881 612 973 1164 1165 386 1157 1688 2349  
2350 2552 1163 1684 1355 726 1687 1928 2549  
2550 1683 1924 896 1927

## Test Facilities (continued)

1923 2144 1166  
2574 1426  
2694

## Test Fixtures

use Test Facilities

## Test Instrumentation

use Test Equipment and Instrumentation

## Test Models

902 2123 285 626 2047  
2352 1015

## Test Stands

173 2554 2545 1157 2149  
183

## Testing Apparatus

use Test Equipment and Instrumentation

## Testing Equipment

use Test Equipment and Instrumentation

## Testing Instrumentation

use Test Equipment and Instrumentation

## Testing Machines

use Test Equipment and Instrumentation

## Testing Techniques

390 601 172 203 174 285 536 387 28 899  
760 1161 1162 623 614 625 716 487 58 1159  
900 2151 1232 1233 624 895 1686 617 208 1429  
1160 2351 2172 1693 1694 1005 1696 1677 318 1919  
1430 1733 1535 1926 1697 898  
2150 1913 1685 2146 1917 1158  
2553 1695 2546 2377 2158  
2607 2608

## Textile Looms

1366

## Thermal Excitation

810 1481 232 1653 587  
827  
1607

## Thickness Effects

use Geometric Effects

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# Three Dimensional Problems

2269

# Thrust Bearings

801

1341

# Tilting Pad Bearings

806 517  
1576

309

# Time-Dependent Excitation

1971

# Time-Dependent Parameters

1631 1632 423 2024  
2163 2164

# Time Domain

2431

# Time Domain Method

1210 411 922 1214 265 176 1948 1109  
491 2112 1964 1959  
2731 2162  
2741

# Timoshenko Theory

1850 541 2072 1593 84 86 1847 1749  
544 1849

# Tire Characteristics

301

1825 1668

# Tires

510 511 462 2435 1026 1027 68 69  
1690 1691 512 1826 1668 459  
1911 1692 1669

# Tools

2154 379

# Torque

1670 1421 663 886 377

# Torsion Bars

2634

# Torsional Excitation

417 1658

# Torsional Response

721 1143 524 2035 957 2109  
2413 2017

# Torsional Vibration

540 71 952 1633 1994 1405 796 177 418 19  
221 1422 906 427 428 669  
1981 1652 1406 1347 538 1049  
2121 1832 668  
2251 2052 1258  
2341 2488

# Torsional Waves

2490

# Towed Bodies

use Towed Systems

# Towed Systems

1851

# Towed Vehicles

2438

# Towers

1620 1621 32 543 434 1515 1986 1618 1619  
723 2006 1769

# Towing Cables

534

# Tracked Vehicles

990 271 1522 896 988

# Tractors

742 743 464  
2212 1294  
1994

# Traffic Induced Vibrations

970 231 1772 2246 968  
2412

# Traffic Noise

770 231 62 773 2524 2575 406 567 568 659  
970 771 772 1293 616 1007 1008 769  
1120 971 902 1736 1679  
2200 1962 2036 1819  
2302 2576 2609

# Trailers

2245 1526

# Trains

use Railroad Trains

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Transducers										Transverse Shear Deformation Effects									
620	1671	382		2354	1905	1906		1419		1840	121	1843	825	816	797	1848	1609		
1420	2141	1672									551		1375		1607		1849		
2140											1861		1595				1859		
											2471		2075						
													2115						
Transfer Functions										Transverse Vibration									
1040				1945											2276				
2730																			
Transfer Matrix Method										Trees (Plants)									
	1241	952	1593	544	1195			549											
		1142			1605			949				754							
		2622						1329											
Transformation Techniques										Truck Tires									
640								648									68		
2450								1578											
Transformers										Trucks									
1880								658			740	761	2022	1743	1324	1296		2138	499
											760	1671		1744					
											1490								
											2610								
Transient Excitation										Trusses									
								1737				122							
Transient Response										Tubes									
190	41	272	163	334	1455	556	1077	1669			1081		14	15		2087	2088	1849	
340	1871	422	2503	1594	2035						2491		2644					2649	
	2361	1952		1674															
	2511	2082																	
		2572																	
Translational Response										Tuned Dampers									
								2197				1893	1894			1557			
Transmission Gears										Tunneling									
								58				2201							
Transmission Lines										Tunnels									
								1407			30		752					729	
																		899	
Transmission Matrix Methods										Turbine Blades									
	791										2250	2052	513	74	1355	796	107		2049
												2252	2053		2475	2186			
Transportation Effects										Turbine Components									
2750				1564	1145						891						2387		2139
											931								
Transportation Noise										Turbine Engines									
								199			931	2522					2347	2058	
																	2388		
Transportation Systems use Transportation Vehicles										Turbines									
Transportation Vehicles												2102	423	424	2185	2186			
								2467						434					

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# Turbocompressors

419

# Turbofan Engines

2521

216 1757 2188 2389  
1256 2187 2388

# Turbomachinery

680 811 2752  
1170

214 215 806 677 678 679  
694 525 2366 1258 1259  
2555 1439

# Turbomachinery Blades

2051 2472 73 2054  
303  
1733

797 1028 1329  
1328

# Turbulence

1830 2521 202  
1812

1724 2647 108 2479  
2509

# Two-Degree of Freedom Systems

877 2719

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# Ultrasonic Techniques

2542 2133 1934  
2583

2158

# Ultrasonic Tests

use Testing Techniques

# Unbalanced Mass Response

1250 2 1893 2044  
2010 2383  
2180

416 1247 949  
2057 2319  
2297

# Underground Explosions

2112 2483 354 355  
2532

# Underground Structures

250 251 252 1873  
2090 2092 2673  
2292

835 836 1627 29  
1625 1626 729

# Underwater Explosions

873 535 207

# Underwater Pipelines

2513

2288

# Underwater Sound

140 141 142 143 144 145 346 147 148 849  
1130 381 1642 873 384 195 1126 167 848 1129  
2100 1641 1682 1123 1124 345 847 1128  
2691 2132 2513 565 1127 1218  
2692 2583 575  
1125

# Universal Joints

1893

# Urban Noise

128

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# Valves

1440 2063 814 1045 1586 2507  
2483 1044 1585  
1935

# Variable Cross Section

330 1241 2652 213 84 115 86 2097 1858 549  
1240 1591 544 555 1856  
2281 664 1605  
2661 2664 2275

# Variable Material Properties

1890 2281 1423 664 326 1247 428  
2660 2651 2114

# Variable Speed Drives

2481

# Variational Methods

2012 1644 2078 1949

# V-Belts

1589

# Velocity Control

221

# Ventilation

137

# Abstract

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**Vibrating Foundations**  
 2012 233 727 2009  
 2603

**Vibrating Structures**  
 610 132 1283 324 565 316 1237 1138 1319  
 1282 1423 2114 1997 1238  
 2117

**Vibration Absorbers**  
 use Vibration Absorption (Equipment)

**Vibration Absorption (Equipment)**  
 1321 1316 1317  
 1496

**Vibration Analyzers**  
 890 1931 1413 2539  
 2160

**Vibration Control**  
 50 781 932 13 964 1165 1166 997 668 599  
 200 1141 1312 1383 1224 2375 1286 1287 1738 789  
 1260 1991 1633 1254 2625 1496 1367 1758 1239  
 2240 1773 1264 2066 1457 2088 1279  
 2350 2243 1944 2216 1897  
 2643 2194 2226  
 2324 2246  
 2326

**Vibration Dampers**  
 1405 1407 298 1019  
 418  
 598  
 1318

**Vibration Damping**  
 1100 2231 82 373 1895 596 427 308 879  
 2620 2322 1323 2315 1406 557 2328 2329  
 1733 2325 1777  
 1753 2607  
 2273

**Vibration Effects**  
 1009

**Vibration Excitation**  
 1140 1012 493 494 1045 2756 1367 718 719  
 1312 593 1014 2007 1039  
 1313 1314 2239  
 1333

**Vibration Frequencies**  
 2079

**Vibration Generation**  
 1730 1391 2257

**Vibration Isolation**  
 2320 681 2242 1023 2464 785 776 2247 2038 2469  
 2630 941 2462 2624 2465 2467 2328  
 2041 2632 2468  
 2631

**Vibration Isolators**  
 500 411 782 13 784 595 2466 777 1319  
 1020 781 1322 2623  
 1320 1231  
 2040

**Vibration Measurement**  
 610 661 182 2313 164 2135 166 2227 888 1909  
 1580 2141 2472 2543 2084 1156 2757 2058 2019  
 2201 2134 1776 2758 2539  
 2544 2136  
 2186  
 2346

**Vibration Meters**  
 374

**Vibration Monitoring**  
 903 678 2559

**Vibration Prediction**  
 2412

**Vibration Probes**  
 1930 2559

**Vibration Reduction**  
 use Vibration Control

**Vibration Resonance**  
 use Natural Frequencies

**Vibration Response**  
 30 91 102 223 954 1225 326 827 118  
 910 1061 1502 403 2594 1515 656 1857 308  
 1140 1361 1063 2115 956 2667 458  
 1590 1651 1733 2285 2118  
 2120 2621 1863 2385  
 2370 2053 2685  
 2500 2273

**Vibration Response Spectra**  
 2561

# Abstract

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## Vibration Signatures

175

## Vibration Source Identification

492 1643

## Vibration Spectra

use Vibration Response Spectra

## Vibration Tests

1800 2151 1502 1693 2484 1165 156 2607 388 1929

2230 1922 2143 2145 1896

2440 2425

2550

## Vibration Tolerance

1311 773 65  
655

## Vibration Transducers

2344 2345

## Vibration Tuning

1316 1317 1318

## Vibrators (Machinery)

2400 1891 263 1284 1285 386 1997 1398 1499

2410 2401 643 1734 2145 2396 2407 2398 2399

1283 2395 2406 2408 2409

2405

## Vibratory Conveyors

use Vibrators (Machinery)  
Materials Handling Equipment

## Vibratory Techniques

1110 1501 1173 2594 1497 1168

2351 2203 2724 1747

## Vibratory Tools

1400 1401 1314 1399  
2239

## Viscoelastic Core-Containing Media

1592 1064 2716

## Viscoelastic Damping

410 601 313 594 1896 1599

600 2323 1064 2716

2324

## Viscoelastic Foundations

1860

2280

## Viscoelastic Media

1850 2711 1663 1664

1903 1904

1953

## Viscoelastic Properties

1662 1153 2065

2082

2692

## Viscoelasticity

340 1137 879

## Viscometers

2126

## Viscoplastic Properties

2131 1154

## Viscosity

1422

## Viscous Damping

1021 1482 2273 1594 1017 2708 369

2271 2592 1147

2321 2577

2591

## Vortex-Induced Excitation

2428

## Vortex-Induced Vibration

476 2087

## Vortex Shedding

1090 365 2428

## Vulnerability

1205

-W-

## Walls

1120 711 342 843 844 1085 266 837 2098 119

1381 1092 1093 1094 1095 1096 857

1853 2295 1097

1117

## Abstract

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## Water Towers

722

## Water Waves

241	32	1513		2215	1516		738	639
401				2605			908	979
1781							1778	1529
							2018	1779
								2369
								2439

## Wave Attenuation

357 859

## Wave Diffraction

341	1113	1634	1635	2696	1677	348	159
	1883			2736	2737	2338	349
	2303						629
							2099
							2369

## Wave Energy

1516

## Wave Equation

142

## Waveguide Analysis

91 1904 2695 1117 638

## Wave Number

use Frequency

## Wave Propagation

640	1871	1952	1903	1664	335	146	637	148	559
1180	2711	2112	2093	1904		346	1387	578	639
		2152	2094			356	1717	908	1839
		2682				1976	2737	1388	2679
						2516		1878	
						2736		1978	

## Wave Reflection

2490 564 147

## Wave Scattering

2690 866

## Weapons Systems

1202 896

## Wear

1132 1364 628

## Weighted Residual Technique

1964

## Welded Joints

2261	344	2418
2331		

## Wheel Shimmy

1826

## Wheels

1670	795	886	377
	1825	1326	

## Wheelsets

284 285 1789

## Whirling

1480	1	1752	2253	874	426	417	1338
	951	2042	2044		666	667	1348
	1481				2636		
	2611						

## Wind-Induced Excitation

20	721	232	433	934	695	1306	477	968	1619
560	1431	972	763	1704	1505	1746	1407	1618	2619
720	1621	1052	973	2224	1535	1986	1967	1688	
1620	1781	1502	1143		1745	2226		2228	
1870	2241	2222			2005			2748	
2030	2411	2732			2225				
2240					2485				

## Wind Tunnel Tests

50	51	1502	1143	74	1535	1166	767	988	1539
490	1331	1532	1303	1224	1545	1256	1547	1158	
1520	1431	2232	1543	1694	1915	1686	1687	1808	
1620	2551	2352		1794					
2450				1914					
2700									

## Wind Tunnels

2552	173	1164	2549
	1163		

## Wind Turbines

2250	2251	2252	2185	1986	2689
2520			2186		

## Windows

1381 845 2296

## Wing Stores

50	2451	1532	1655	767	998	1539
2230	2452			2627	2628	2229

## Abstract

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Winkler Foundations  
1842

2069

-Y-

Wire

536 537

Yarn Spinning

1838

Wire Stranding Machinery  
693

Yarns

1838

Abstract

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